0570
0731

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See p.6

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/027,629

DATE: 08/08/2002
TIME: 10:39:16

Input Set : **A:\07334-341001.TXT**
Output Set: **N:\CRF3\08082002\J027629.raw**

```
 4 <110> APPLICANT: Bertin, John
 5         Manji, Gulam A.
 7 <120> TITLE OF INVENTION: NOVEL MOLECULES OF THE PYRIN DOMAIN
 8         PROTEIN FAMILY AND USES THEREOF
10 <130> FILE REFERENCE: 07334-341001
12 <140> CURRENT APPLICATION NUMBER: US 10/027,629
13 <141> CURRENT FILING DATE: 2001-12-20
15 <150> PRIOR APPLICATION NUMBER: US 09/964,955
16 <151> PRIOR FILING DATE: 2001-09-26
18 <150> PRIOR APPLICATION NUMBER: US 09/653,901
19 <151> PRIOR FILING DATE: 2000-09-01
21 <150> PRIOR APPLICATION NUMBER: US 09/506,067
22 <151> PRIOR FILING DATE: 2000-02-17
24 <160> NUMBER OF SEQ ID NOS: 17
26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 3431
30 <212> TYPE: DNA
31 <213> ORGANISM: Homo sapiens
33 <220> FEATURE:
34 <221> NAME/KEY: CDS
35 <222> LOCATION: (78)...(3176)
37 <400> SEQUENCE: 1
38 cagccctcat ctccgccggc gagtagggcc aggtgttggg agctcccacg tgggacaagg      60
39 tggtgtcttc ggcgcag atg ggt ttc aac ctg cag gct ctc ctg gag cag     110
40                 Met Gly Phe Asn Leu Gln Ala Leu Leu Glu Gln
41                  1               5                  10
43 ctc agc cag gat gag ttg agc aag ttc aag tat ctg atc acg acc ttc     158
44 Leu Ser Gln Asp Glu Leu Ser Lys Phe Lys Tyr Leu Ile Thr Thr Phe
45             15                  20                  25
47 tcc ccg gca cac gag ctc cag aag atc ccc cac aag gag gta gac aag     206
48 Ser Pro Ala His Glu Leu Gln Lys Ile Pro His Lys Glu Val Asp Lys
49         30                  35                  40
51 gct gat ggg aag caa ctg gta gaa atc ctc acc acc cat tgt gac agc     254
52 Ala Asp Gly Lys Gln Leu Val Glu Ile Leu Thr Thr His Cys Asp Ser
53         45                  50                  55
55 tac tgg gtg gag atg gcg agc ctc cag gtc ttt gaa aag atg cac cga     302
56 Tyr Trp Val Glu Met Ala Ser Leu Gln Val Phe Glu Lys Met His Arg
57 60                  65                  70                  75
59 atg gat ctg tct gag aga gca aag gat gaa gtc aga gaa gca gct ttg     350
60 Met Asp Leu Ser Glu Arg Ala Lys Asp Glu Val Arg Glu Ala Ala Leu
61                 80                  85                  90
63 aaa tcc ttt aat aaa agg aag cct cta tca tta ggg ata aca cgg aaa     398
```

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PATENT APPLICATION: US/10/027,629   TIME: 10:39:16

Input Set : A:\07334-341001.TXT
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```
64 Lys Ser Phe Asn Lys Arg Lys Pro Leu Ser Leu Gly Ile Thr Arg Lys
65             95              100             105
67 gaa cga cca cct cta gac gtg gac gaa atg ctg gag cgc ttc aaa aca    446
68 Glu Arg Pro Pro Leu Asp Val Asp Glu Met Leu Glu Arg Phe Lys Thr
69         110             115             120
71 gaa gca caa gac aaa gac aat agg tgc agg tat ata ttg aag acg aag    494
72 Glu Ala Gln Asp Lys Asp Asn Arg Cys Arg Tyr Ile Leu Lys Thr Lys
73     125             130             135
75 ttc cgg gag atg tgg aag agc tgg cct gga gat agc aaa gag gtc cag    542
76 Phe Arg Glu Met Trp Lys Ser Trp Pro Gly Asp Ser Lys Glu Val Gln
77 140             145             150             155
79 gtt atg gct gag aga tac aag atg ctg atc cca ttt agc aac ccc agg    590
80 Val Met Ala Glu Arg Tyr Lys Met Leu Ile Pro Phe Ser Asn Pro Arg
81             160             165             170
83 gtg ctt ccc ggg ccc ttc tca tac acg gtg gtg ctg tat ggt cct gca    638
84 Val Leu Pro Gly Pro Phe Ser Tyr Thr Val Val Leu Tyr Gly Pro Ala
85         175             180             185
87 ggc ctt ggg aaa acc acg ctg gcc cag aaa cta atg cta gac tgg gca    686
88 Gly Leu Gly Lys Thr Thr Leu Ala Gln Lys Leu Met Leu Asp Trp Ala
89         190             195             200
91 gag gac aac ctc atc cac aaa ttc aaa tat gcg ttc tac ctc agc tgc    734
92 Glu Asp Asn Leu Ile His Lys Phe Lys Tyr Ala Phe Tyr Leu Ser Cys
93     205             210             215
95 agg gag ctc agc cgc ctg ggc ccg tgc agt ttt gca gag ctg gtc ttc    782
96 Arg Glu Leu Ser Arg Leu Gly Pro Cys Ser Phe Ala Glu Leu Val Phe
97 220             225             230             235
99 agg gac tgg cct gaa ttg cag gat gac att cca cac atc cta gcc caa    830
100 Arg Asp Trp Pro Glu Leu Gln Asp Asp Ile Pro His Ile Leu Ala Gln
101             240             245             250
103 gca cgg aaa atc ttg ttc gtg att gac ggc ttt gat gag ctg gga gcc   878
104 Ala Arg Lys Ile Leu Phe Val Ile Asp Gly Phe Asp Glu Leu Gly Ala
105         255             260             265
107 gca cct ggg gcg ctg atc gag gac atc tgc ggg gac tgg gag aag aag   926
108 Ala Pro Gly Ala Leu Ile Glu Asp Ile Cys Gly Asp Trp Glu Lys Lys
109         270             275             280
111 aag ccg gtg ccc gtc ctc ctg ggg agt ttg ctg aac agg gtg atg tta   974
112 Lys Pro Val Pro Val Leu Leu Gly Ser Leu Leu Asn Arg Val Met Leu
113     285             290             295
115 ccc aag gcc gcc ctg ctg gtc acc acg cgg ccc agg gcc ctg agg gac   1022
116 Pro Lys Ala Ala Leu Leu Val Thr Thr Arg Pro Arg Ala Leu Arg Asp
117 300             305             310             315
119 ctc cgg atc ctg gcg gag gag ccg atc tac ata agg gtg gag ggc ttc   1070
120 Leu Arg Ile Leu Ala Glu Glu Pro Ile Tyr Ile Arg Val Glu Gly Phe
121             320             325             330
123 ctg gag gag gac aag agg gcc tat ttc ctg aga cac ttt gga gac gag   1118
124 Leu Glu Glu Asp Lys Arg Ala Tyr Phe Leu Arg His Phe Gly Asp Glu
125         335             340             345
127 gac caa gcc atg cgt gcc ttt gag cta atg agg agc aac gcg gcc ctg   1166
128 Asp Gln Ala Met Arg Ala Phe Glu Leu Met Arg Ser Asn Ala Ala Leu
```

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Input Set : A:\07334-341001.TXT
Output Set: N:\CRF3\08082002\J027629.raw

```
129        350                   355                   360
131 ttc cag ctg ggc tcg gcc ccc gcg gtg tgc tgg atc gtg tgc acg act        1214
132 Phe Gln Leu Gly Ser Ala Pro Ala Val Cys Trp Ile Val Cys Thr Thr
133     365                   370                   375
135 ctg aag ctg cag atg gag aag ggg gag gac ccg gtc ccc acc tgc ctc        1262
136 Leu Lys Leu Gln Met Glu Lys Gly Glu Asp Pro Val Pro Thr Cys Leu
137 380                   385                   390                   395
139 acc cgc acg ggg ctg ttc ctg cgt ttc ctc tgc agc cgg ttc ccg cag        1310
140 Thr Arg Thr Gly Leu Phe Leu Arg Phe Leu Cys Ser Arg Phe Pro Gln
141                   400                   405                   410
143 ggc gca cag ctg cgg ggc gcg ctg cgg acg ctg agc ctc ctg gcc gcg        1358
144 Gly Ala Gln Leu Arg Gly Ala Leu Arg Thr Leu Ser Leu Leu Ala Ala
145               415                   420                   425
147 cag ggc ctg tgg gcg cag acg tcc gtg ctt cac cga gag gat ctg gaa        1406
148 Gln Gly Leu Trp Ala Gln Thr Ser Val Leu His Arg Glu Asp Leu Glu
149           430                   435                   440
151 agg ctc ggg gtg cag gag tcc gac ctc cgt ctg ttc ctg gac gga gac        1454
152 Arg Leu Gly Val Gln Glu Ser Asp Leu Arg Leu Phe Leu Asp Gly Asp
153     445                   450                   455
155 atc ctc cgc cag gac aga gtc tcc aaa ggc tgc tac tcc ttc atc cac        1502
156 Ile Leu Arg Gln Asp Arg Val Ser Lys Gly Cys Tyr Ser Phe Ile His
157 460                   465                   470                   475
159 ctc agc ttc cag cag ttt ctc act gcc ctg ttc tac acc ctg gag aag        1550
160 Leu Ser Phe Gln Gln Phe Leu Thr Ala Leu Phe Tyr Thr Leu Glu Lys
161                   480                   485                   490
163 gag gag gaa gag gat agg gac ggc cac acc tgg gac att ggg gac gta        1598
164 Glu Glu Glu Glu Asp Arg Asp Gly His Thr Trp Asp Ile Gly Asp Val
165           495                   500                   505
167 cag aag ctg ctt tcc gga gta gaa aga ctc agg aac ccc gac ctg atc        1646
168 Gln Lys Leu Leu Ser Gly Val Glu Arg Leu Arg Asn Pro Asp Leu Ile
169     510                   515                   520
171 caa gca ggc tac tac tcc ttt ggc ctc gct aac gag aag aga gcc aag        1694
172 Gln Ala Gly Tyr Tyr Ser Phe Gly Leu Ala Asn Glu Lys Arg Ala Lys
173     525                   530                   535
175 gag ttg gag gcc act ttt ggc tgc cgg atg tca ccg gac atc aaa cag        1742
176 Glu Leu Glu Ala Thr Phe Gly Cys Arg Met Ser Pro Asp Ile Lys Gln
177 540                   545                   550                   555
179 gaa ttg ctg cga tgc gac ata agt tgt aag ggt gga cat tca acg gtg        1790
180 Glu Leu Leu Arg Cys Asp Ile Ser Cys Lys Gly Gly His Ser Thr Val
181               560                   565                   570
183 aca gac ctg cag gag ctc ctc ggc tgt ctg tac gag tct cag gag gag        1838
184 Thr Asp Leu Gln Glu Leu Leu Gly Cys Leu Tyr Glu Ser Gln Glu Glu
185           575                   580                   585
187 gag ctg gtg aag gag gtg atg gct cag ttc aaa gaa ata tcc ctg cac        1886
188 Glu Leu Val Lys Glu Val Met Ala Gln Phe Lys Glu Ile Ser Leu His
189     590                   595                   600
191 tta aat gca gta gac gtt gtg cca tct tca ttc tgc gtc aag cac tgt        1934
192 Leu Asn Ala Val Asp Val Val Pro Ser Ser Phe Cys Val Lys His Cys
193     605                   610                   615
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/027,629

DATE: 08/08/2002
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Input Set : A:\07334-341001.TXT
Output Set: N:\CRF3\08082002\J027629.raw

```
195 cga aac ctg cag aaa atg tca ctg cag gta ata aag gag aat ctc ccg    1982
196 Arg Asn Leu Gln Lys Met Ser Leu Gln Val Ile Lys Glu Asn Leu Pro
197 620             625             630             635
199 gag aat gtc act gcg tct gaa tca gac gcc gag gtt gag aga tcc cag    2030
200 Glu Asn Val Thr Ala Ser Glu Ser Asp Ala Glu Val Glu Arg Ser Gln
201             640             645             650
203 gat gat cag cac atg ctt cct ttc tgg acg gac ctt tgt tcc ata ttt    2078
204 Asp Asp Gln His Met Leu Pro Phe Trp Thr Asp Leu Cys Ser Ile Phe
205             655             660             665
207 gga tca aat aag gat ctg atg ggt cta gca atc aat gat agc ttt ctc    2126
208 Gly Ser Asn Lys Asp Leu Met Gly Leu Ala Ile Asn Asp Ser Phe Leu
209         670             675             680
211 agt gcc tcc cta gta agg atc ctg tgt gaa caa ata gcc tct gac acc    2174
212 Ser Ala Ser Leu Val Arg Ile Leu Cys Glu Gln Ile Ala Ser Asp Thr
213     685             690             695
215 tgt cat ctc cag aga gtg gtg ttc aaa aac att tcc cca gct gat gct    2222
216 Cys His Leu Gln Arg Val Val Phe Lys Asn Ile Ser Pro Ala Asp Ala
217 700             705             710             715
219 cat cgg aac ctc tgc cta gct ctt cga ggt cac aag act gta acg tat    2270
220 His Arg Asn Leu Cys Leu Ala Leu Arg Gly His Lys Thr Val Thr Tyr
221             720             725             730
223 ctg acc ctt caa ggc aat gac cag gat gat atg ttt ccc gca ttg tgt    2318
224 Leu Thr Leu Gln Gly Asn Asp Gln Asp Asp Met Phe Pro Ala Leu Cys
225             735             740             745
227 gag gtc ttg aga cat cca gaa tgt aac ctg cga tat ctc ggg ttg gtg    2366
228 Glu Val Leu Arg His Pro Glu Cys Asn Leu Arg Tyr Leu Gly Leu Val
229         750             755             760
231 tct tgt tcc gct acc act cag cag tgg gct gat ctc tcc ttg gcc ctt    2414
232 Ser Cys Ser Ala Thr Thr Gln Gln Trp Ala Asp Leu Ser Leu Ala Leu
233     765             770             775
235 gaa gtc aac cag tcc ctg acg tgc gta aac ctc tcc gac aat gag ctt    2462
236 Glu Val Asn Gln Ser Leu Thr Cys Val Asn Leu Ser Asp Asn Glu Leu
237 780             785             790             795
239 ctg gat gag ggt gct aag ttg ctg tac aca act ttg aga cac ccc aag    2510
240 Leu Asp Glu Gly Ala Lys Leu Leu Tyr Thr Thr Leu Arg His Pro Lys
241             800             805             810
243 tgc ttt ctg cag agg ttg tcg ttg gaa aac tgt cac ctt aca gaa gcc    2558
244 Cys Phe Leu Gln Arg Leu Ser Leu Glu Asn Cys His Leu Thr Glu Ala
245             815             820             825
247 aat tgc aag gac ctt gct gct gtg ttg gtt gtc agc cgg gag ctg aca    2606
248 Asn Cys Lys Asp Leu Ala Ala Val Leu Val Val Ser Arg Glu Leu Thr
249         830             835             840
251 cac ctg tgc ttg gcc aag aac ccc att ggg aat aca ggg gtg aag ttt    2654
252 His Leu Cys Leu Ala Lys Asn Pro Ile Gly Asn Thr Gly Val Lys Phe
253     845             850             855
255 ctg tgt gag ggc ttg agg tac ccc gag tgt aaa ctg cag acc ttg gtg    2702
256 Leu Cys Glu Gly Leu Arg Tyr Pro Glu Cys Lys Leu Gln Thr Leu Val
257 860             865             870             875
259 ctt tgg aac tgc gac ata act agc gat ggc tgc tgc gat ctc aca aag    2750
```

RAW SEQUENCE LISTING   DATE: 08/08/2002
PATENT APPLICATION: US/10/027,629   TIME: 10:39:16

Input Set : A:\07334-341001.TXT
Output Set: N:\CRF3\08082002\J027629.raw

```
260 Leu Trp Asn Cys Asp Ile Thr Ser Asp Gly Cys Cys Asp Leu Thr Lys
261             880                 885                 890
263 ctt ctc caa gaa aaa tca agc ctg ttg tgt ttg gat ctg ggg ctg aat        2798
264 Leu Leu Gln Glu Lys Ser Ser Leu Leu Cys Leu Asp Leu Gly Leu Asn
265             895                 900                 905
267 cac ata gga gtt aag gga atg aag ttc ctg tgt gag gct ttg agg aaa        2846
268 His Ile Gly Val Lys Gly Met Lys Phe Leu Cys Glu Ala Leu Arg Lys
269             910                 915                 920
271 cca ctg tgc aac ttg aga tgt ctg tgg ttg tgg gga tgt tcc atc cct        2894
272 Pro Leu Cys Asn Leu Arg Cys Leu Trp Leu Trp Gly Cys Ser Ile Pro
273         925                 930                 935
275 ccg ttc agt tgt gaa gac ctc tgc tct gcc ctc agc aac cag agc ctc        2942
276 Pro Phe Ser Cys Glu Asp Leu Cys Ser Ala Leu Ser Asn Gln Ser Leu
277 940                 945                 950                 955
279 gtc act ctg gac ctg ggt cag aat ccc ttg ggg tct agt gga gtg aag        2990
280 Val Thr Leu Asp Leu Gly Gln Asn Pro Leu Gly Ser Ser Gly Val Lys
281             960                 965                 970
283 atg ctg ttt gaa acc ttg aca tgt tcc agt ggc acc ctc cgg aca ctc        3038
284 Met Leu Phe Glu Thr Leu Thr Cys Ser Ser Gly Thr Leu Arg Thr Leu
285             975                 980                 985
287 agg ttg aaa atc gat gac ttt aat gat gaa ctc aat aag ctg ctg gaa        3086
288 Arg Leu Lys Ile Asp Asp Phe Asn Asp Glu Leu Asn Lys Leu Leu Glu
289         990                 995                 1000
291 gaa ata gaa gaa aaa aac cca caa ctg att att gat act gag aaa cat        3134
292 Glu Ile Glu Glu Lys Asn Pro Gln Leu Ile Ile Asp Thr Glu Lys His
293         1005                1010                1015
295 cat ccc tgg gca gaa agg cct tct tct cat gac ttc atg atc                3176
296 His Pro Trp Ala Glu Arg Pro Ser Ser His Asp Phe Met Ile
297 1020                1025                1030
299 tgaatccccc cgagtcattc attctccatg aagtcatcga ttttccaggt gttggtgaac      3236
300 tgcctgtgac tcctctcctc cccggcccct acccctcagg gataatgagt tcattgctgg      3296
301 gctagatgtt ttagccatga ttctgcctct gtttttatacc tgcacacatc cttatctttg     3356
302 ttacatatga aatatctgta tcacgggtat attgagagaa ataaaggtga gagcattcac      3416
303 aaaaaaaaaa aaaaa                                                        3431
305 <210> SEQ ID NO: 2
306 <211> LENGTH: 1033
307 <212> TYPE: PRT
308 <213> ORGANISM: Homo sapiens
310 <400> SEQUENCE: 2
311 Met Gly Phe Asn Leu Gln Ala Leu Leu Glu Gln Leu Ser Gln Asp Glu
312 1               5                   10                  15
313 Leu Ser Lys Phe Lys Tyr Leu Ile Thr Thr Phe Ser Pro Ala His Glu
314             20                  25                  30
315 Leu Gln Lys Ile Pro His Lys Glu Val Asp Lys Ala Asp Gly Lys Gln
316         35                  40                  45
317 Leu Val Glu Ile Leu Thr Thr His Cys Asp Ser Tyr Trp Val Glu Met
318     50                  55                  60
319 Ala Ser Leu Gln Val Phe Glu Lys Met His Arg Met Asp Leu Ser Glu
320 65                  70                  75                  80
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 08/08/2002
PATENT APPLICATION: US/10/027,629   TIME: 10:39:17

Input Set : A:\07334-341001.TXT
Output Set: N:\CRF3\08082002\J027629.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:10; Xaa Pos. 2,5,6,9,11,12,23,25,27,28,29,31,37,39,40,45,46,49,50,54
Seq#:10; Xaa Pos. 58,70,75
Seq#:11; Xaa Pos. 2,5,9,11,12,23,25,31,39

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/027,629

DATE: 08/08/2002
TIME: 10:39:17

Input Set : **A:\07334-341001.TXT**
Output Set: **N:\CRF3\08082002\J027629.raw**

```
L:1040 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1044 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:10
L:1045 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:1047 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:16
L:1049 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:32
L:1051 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:48
L:1053 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:64
L:1064 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1068 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:11
L:1069 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:1071 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:16
L:1073 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:32
```